
IM-1 MILLION
IN A

JAN 1983

PAGE 1

WELCOME TO THE ALL NEW IM-1 IN A MILLION COMPUTER CLUB AND NEWS-LETTER. WITH THIS NEWSLETTER WE HOPE TO IMPROVE YOUR ABILITIES AND CAPABILITIES WITH THE IM-1.

ALL THE WORK ON THE NEWSLETTER WILL BE DONE ON AN IM-1 TO SHOW YOU WHAT CAN BE DONE. JUST WRITE AND WE WILL TELL YOU HOW WE DO ANYTHING THAT YOU SEE IN THE NEWSLETTER.

WE WANT YOU TO WRITE TO US AND TELL US ABOUT YOUR NEEDS AND WANTS CONCERNING THE IM-1 (SORRY WE DON'T TAKE CARE OF THE PROBLEMS OF LIFE). PLEASE USE THE FORM AT THE BACK OF THIS ISSUE TO SEND IN YOUR IDEAS. THE MORE INPUT WE GET FROM THE MEMBERS THE BETTER WE CAN SERVE YOU, SO KEEP THOSE PROGRAMS AND HINTS (GOOD OR BAD) COMING. RIGHT NOW THERE IS A LOT OF INTEREST IN BUSINESS TYPE PROGRAMS, SO IF YOU HAVE ANYTHING SEND IT IN.

WE ARE OPEN TO ANY AND ALL SUGGESTIONS FOR OR ABOUT THE NEWSLETTER. SEND ALL MAIL TO

IM-1 IN A MILLION
PO BOX 1411
SPRINGDALE
ARKANSAS 72764

LET'S MAKE SURE OF ONE THING NOW. THOSE OF YOU WHO WERE MEMBERS OF THE NICC IN 1982 THAT WERE MISSED ON AN ISSUE OR FOR PART OF THE YEAR-LET ME KNOW WHO YOU ARE. IT'S MY JOB TO MAKE SURE THAT ALL OF YOU GET WHAT YOU PAID FOR AND IF YOU WERE ONE OF THOSE WHO GOT SKIPPED, I CAN'T DO ANYTHING WITHOUT YOUR HELP.

WE PROMISED TO ANSWER EVERY LETTER WE GET, BUT COULD I QUALIFY THAT FOR A MOMENT. IF YOU WANT A RESPONSE WOULD YOU PLEASE SPECIFY IN YOUR LETTER. AND IF POSSIBLE, INCLUDE A STAMPED SELF ADDRESSED ENVELOPE. THESE POSTAL RATES ARE DRIVING ME CRAZY AND THE 28 CENTS COMES OUT OF THE CLUB FUNDS. OTHERWISE WE WILL ASSUME THAT AN ANSWER IN THE NEWSLETTER WILL DO. THIS WILL ALSO ALLOW OTHER MEMBERS TO SEE THE QUESTIONS AND ANSWERS. NO TELLING HOW MANY THIS WILL HELP. THE PROBLEM BOTHERING YOU NOW MIGHT BE SOMEBODY ELSE'S TOMORROW.

FOR ANYBODY THAT WANTS TO SELL PROGRAMS OR HARDWARE WE WILL HAVE A "WANT ADS" SECTION WHICH WILL BE DISCOUNTED FOR MEMBERS. ALSO IF YOU WANT US TO REVIEW YOUR PROGRAMS OR HARDWARE CHANGES, PLEASE FURNISH US WITH A SAMPLE. WE WILL THEN REVIEW IT AND SEND OUR COMMENTS TO YOU. PLEASE LABEL ALL PROGRAMS WITH "DO NOT PUBLISH" TO HELP US.

IF ANYBODY HAS HARDWARE PROBLEMS WE WILL DO OUR BEST TO HELP YOU THROUGH THE NEWSLETTER OR A DIRECT LETTER TO YOU. IF IT IS AN EMERGENCY WE WILL EVEN HELP OVER THE PHONE (DUE TO COST YOU NEED TO HAVE ALL OF YOUR INFORMATION READY SO WE WON'T SPEND A LOT OF TIME ON THE PHONE). IF YOU WRITE TO US, PUT YOU AN ESTIMATE OF COST BEFORE YOU SHIP THE MACHINE. PLEASE INCLUDE ANY AND ALL INFORMATION ABOUT THE PROBLEM, THE MACHINE, THE BETTER, AND SHIP BY UPS. TO: M B ENTERPRISES
1403 WILLARD
SPRINGDALE
ARKANSAS 72764
PHONE 501-756-6999 (AFTER 6 P.M. CENTRAL)

FOR THE PEOPLE WHO SEND PROGRAMS WE WILL PUBLISH AS MANY AS WE CAN. THE ONLY THING WE REQUEST IS THAT YOU SEND THEM TO US ON TAPE. WE WILL RETURN ANY TAPES REQUESTED. PLEASE PUT YOUR NAME AND ADDRESS ON THE TAPE. ALSO IF YOU WANT TO PUT AS MANY COMMANDS AS YOU CAN ON EACH LINE IT WILL TAKE AS MUCH SPACE TO PRINT.

ALSO FOR THOSE LIKE ME THAT ARE LATE AND DON'T LIKE TO KEY IN THE PROGRAMS WE WILL SEND OUT COPIES OF TAPES FOR \$5.00 PER TAPE AND WE WILL PUT AS MANY OF THE PROGRAMS ON EACH TAPE AS WE CAN. JUST SEND US A LIST OF PROGRAMS YOU WANT AND WE WILL TRY TO GET THEM ON THE TAPE. LIST THEM IN THE ORDER YOU WANT THEM, FOR \$10.00 WE WILL PUT THEM ON A DISC.

HERE IS A LIST OF THE SECTIONS WE HAVE IN THE NEWSLETTER.

1. GENERAL COMMENTS
2. QUESTIONS AND ANSWERS
3. SOFTWARE HINTS AND ROUTINES (BASIC (BASIC BOX)
4. MACHINE LANGUAGE ROUTINES (M.L. BOX)
5. PROGRAM LISTINGS
 - A. GAMES
 - B. HOUSEHOLD
 - C. BUSINESS
 - D. LIST OF PROGRAMS AVAILABLE ON TAPE OR DISC
6. LONESOME COMPUTER LISTS AND ADDRESS OF COMPUTERS FOR COMPANIONSHIP
7. WANT ADS-FOR MEMBERS \$10.00 PER LINE. FOR NON-MEMBERS \$20.00 PER LINE. PLEASE READ RESTRICTIONS PRINTED WITH BLANK AD IN BACK OF THE NEWSLETTER.
8. PLUS ANY ADVERTISEMENTS SUBMITTED BY MEMBERS AND NON-MEMBERS AT THE FULL PAGE RATES.
9. PROGRAM & HARDWARE SERVICE FOR SERVICE AVAILABLE TO ANYBODY THROUGH THE CLUB TO TEST AND REVIEW THEIR PROGRAMS. JUST SEND US A COPY OF IT AND WE WILL TRY AND PRINT THE RESULTS OR SEND THE RESULTS BACK TO YOU.

WELL ENOUGH OF THE GENERAL COMMENTS AND ON WITH THE PART EVERYBODY HAS BEEN WAITING FOR!!!!!!
FOR THOSE OF YOU WHO JOINED LATE THE NEWS ISSUES ARE STILL AVAILABLE AT \$10.00 FOR THE WHOLE YEAR. WRITE TO THE IM-1 IN A MILLION ADDRESS TO ORDER THEM.

I UNDERSTAND NOW WHY MAIL ORDER ADS HAVE ALWAYS STATED "CANADIAN ORDERS ADD 10% TO PURCHASE PRICE". THERE IS A SIZEABLE HASSLE AND LARGER SERVICE CHARGE EVERY TIME I TRY TO DEPOSIT AN OUT OF COUNTRY CHECK. I'VE EVEN NEEDED TO SEND A FEW BACK ASKING FOR A POSTAL MONEY ORDER. BECAUSE OF THIS, WOULD THOSE OF YOU WHO LIVE OUTSIDE OF THE U.S. PLEASE USE MONEY ORDERS WHEN PURCHASING FROM THE CLUB.

THANKS EDITOR

FOR CLUB MEMBERS WITH QUESTIONS WE CANNOT ANSWER WE WILL BE GLAD TO RUN YOUR QUESTION WITH YOUR NAME AND ADDRESS FOR CLUB MEMBERS TO RESPOND TO, PLEASE SPECIFY IF YOU WANT YOUR NAME PUBLISHED.

THINGS SUBMITTED BY THE MEMBERS

CHECK THE PROGRAM LISTINGS FOR SOME SIMPLE PROGRAMS SUBMITTED BY KEITH PHILLIPS TO SHOW THE USE OF HI RESOLUTION GRAPHICS FOR THE BEGINNER IN HI RES. KEITH SUBMITTED SEVERAL LISTINGS AND WE WILL PUBLISH THEM AS SPACE ALLOWS.

THANKS FOR THE INFO KEITH

!!!!!!!!!!!!!!HERE IS A LETTER FROM ONE OF THE MEMBERS!!!!!!!!!!!!

FELLOW CLUB MEMBERS

THE EDITOR AND CLUB PRESIDENT HAS BEEN GRACIOUS ENOUGH TO ALLOW ME TO MAKE SOME BRIEF COMMENTS FOR THE NEWSLETTER. LET ME ASSURE ALL IM-1 OWNERS THAT THEY OWN THE BEST ALL AROUND HOME COMPUTER ON THE MARKET. RECENT PRICE DECLINES IN ALL THE OTHERS STILL CAN'T MATCH THE IM-1. I FEEL SORRY FOR ANYONE BUYING THE OTHER BRANDS. THEY MAY SPEND 5 TO 10 TIMES THEIR INITIAL INVESTMENT TO LOAD AND SAVE PROGRAMS IN A TIMELY MANNER AND STILL THINK THEY BOUGHT A \$200 COMPUTER. I'VE KNOWN PEOPLE THAT STARTED WITH THE APPLE ONLY TO SWITCH TO THE IBM. THIS IS NOT A GOOD TIME TO BE CHASING TECHNOLOGY. THE POINT IS THIS, THE FIRST STEP SHOULD BE SMALL, I.E., INEXPENSIVE. ALL HOME COMPUTERS HAVE SHORTCOMINGS. IT DOESN'T TAKE A GENIUS TO FIND FAULT WITH A \$300 COMPUTER. I CHOSE APP BECAUSE ITS SHORTCOMINGS WERE EASIEST TO CORRECT AND THE LEAST EXPENSIVE. UNFORTUNATELY, RUMORS ARE RAMPANT, APP MAY GO OUT OF BUSINESS. THEIR STOCK A FEW YEARS AGO WAS \$15 A SHARE. NOW IT'S A MERE 25 CENTS. I THINK IT WAS THE ECONOMY, MAYBE SOME BAD DECISIONS BY MANAGEMENT, AT ANY RATE, WE MAY BE THE ONLY ONES TO GET A FAIR DEAL ON OUR "FIRST STEP". IF WE COULD HELP APP WOULD WE? MAYBE I SAW TOO MANY WALT DISNEY MOVIES LIKE "SAVE THE TIGER". I DON'T THINK I HAVE A "POLYANNA" VIEW OF SAVING APP. I'M NOT SURE WE CAN SUCCEED. ESPECIALLY WITH OUT APP WORKING WITH US. FIRST, THEY NEED TO ADVERTISE. THEY PROBABLY CAN'T AFFORD IT. WE COULD OFFER THEM FREE SOFTWARE AND HARDWARE MODIFICATIONS, BUT THEY MAY NOT WANT THEM. I'M A LOUSY SALESMAN MYSELF. I'M NOT ASKING THAT WE ALL GO OUT AND BUG PEOPLE TO BUY AN APP. BUT, IF YOU KNOW SOMEONE CONSIDERING BUYING A HOME COMPUTER YOU WOULD BE DOING THEM A FAVOR BY TELLING THEM ABOUT THE ONLY WHOLE COMPUTER FOR UNDER \$300. DID YOU KNOW THAT A 48K APPLE HAS ONLY 36K OF USER AVAILABLE MEMORY? OR A COMMODORE 64 HAS ONLY 36K? ALL THE OTHER BRANDS REQUIRE EXTENDED BASIC FOR HI RES GRAPHICS. OR THAT THEY USE SLOW BAUD TRANSFER RATES WITH CRITICAL VOLUME SETTINGS AND NO AUDIO TRACK TO FRUSTRATE PEOPLE INTO BUYING FLOPPIES? I COULD GO ON BUT I THINK THAT SHOULD BE SUFFICIENT. THE APP CAN DO DUAL CHANNEL SOUND EFFECTS (LIKE STEREO) BY TURNING THE CASSETTE ON AND OFF WITH SAY PARTS OF STAR WARS RECORDED ON IT TO SPICE UP YOUR GAMES

WITH REAL BUNFIRE. AS SOON AS WE GET AN BK SCREEN MEMORY MOD COMBINED WITH THE ALREADY AVAILABLE 24K WE WILL HAVE A 32K MACHINE LIKE EVERYBODY ELSE. WE HAVE 16 COLORS IN HI RES MODE 2 AND THE NEW ROMMON, SOON HUEY, SUPERCALCULATOR WITH SCI NOTATION AND 12 DIGIT ACCURACY IN MACHINE LANGUAGE. FUTURE NEWSLETTERS WILL HAVE MORE. THIS NEXT YEAR WILL BE GREAT.

K. PHILLIPS

?????QUESTIONS AND ANSWERS?????

WE ARE GETTING SEVERAL QUESTIONS ABOUT HOOKING THE IM-1 TO RECEIVERS FOR SATELITES AND HAM RADIOS. IF ANYBODY HAS ANY INFO SEND IT TO THE CLUB AND WE WILL LET THE OTHER MEMBERS KNOW.

FROM WESLEY DUKE

IS THERE AN ADAPTER AVAILABLE TO ALLOW OTHER GAME CARTRIDGES TO BE ATTACHED TO THE IM-1????

AS OF NOW THERE ARE NONE THAT WE KNOW OF, BUT THERE ARE SEVERAL PEOPLE WRITING GOOD GAME PROGRAMS FOR THE IM-1 NOW. SEE THE ENCLOSED AQ.

*****MAINTENANCE HINTS*****
FOR THOSE THAT NEED NEW MEMORY CHIPS FOR THE MPA-10 AND CANNOT FIND THE 4115, WELL THE RADIO SHACK 4116 THAT THEY USE IN THEIR 16K MEMORY'S WILL WORK.

BASIC BOX BASIC BOX BASIC BOX

WITH THIS SECTION OF THE NEWSLETTER I HOPE TO EXPLAIN SOME OF THE MORE DIFFICULT "BASIC" STATEMENTS AND TRY TO GIVE SOME EXAMPLES OF THEIR USE. IF THERE ARE ANY COMMANDS GIVING YOU A HARD TIME, PLEASE WRITE AND LET ME KNOW AND I WILL TRY TO COVER THEM FIRST. ALSO IF YOU HAVE ANY EXPLANATION YOU FEEL MIGHT HELP SOME OF THE OTHER MEMBERS PLEASE SEND THEM.

HERE ARE SEVERAL COMMANDS THAT PEOPLE HAVE WRITTEN TO US WANTING TO KNOW WHY THEY WILL NOT DO ANYTHING ON THEIR IM-1'S. 1--OPEN, 2--CLOSE, 3--DIR, 4--SAVE, 5--INIT; ALL OF THESE COMMANOS ARE ONLY FOR THE IM-1'S FLOPPY DISC DRIVES. IF YOU TRY TO USE THEM IT WILL PROBABLY CAUSE THE COMPUTER TO HANG.

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5 REM PROGRAM BY K.D.WITZ OF PENNAPOLISHORE- ON ,CANADA.
10 REM *COMPARES U.S AND METRIC SYSTEMS.
20 CALL 17044: POKE 24576,30
30 PRINT "***** U.S. TO M E T R I C *****"
40 PRINT
50 PRINT "**** C O N V E R S I O N S ****"
55 PRINT
60 PRINT " 1. LINEAR MEASUREMENTS"
62 PRINT "    IN-CH-KILOMETER-MRD-METER"
65 PRINT " 2. SPEEDS AND FUEL CONSUMPTIONS"
66 PRINT
70 PRINT " 3. SQUARES AND CUBES (US-METRIC)"
75 PRINT " 4. TEMPERATURES (F-DEG-C-DEG-F)" PRINT
80 PRINT " 5. LIQUID MEASURES (IMP OZ-L)" PRINT "AND WEIGHTS": PRINT
105 PRINT
110 INPUT "SELECT 1,2,3,4,5":S
120 ON S GOTO 130,450,500,600,700,750
130 CALL 17044
140 PRINT " 1 INCH = 2.54 CENTIMETERS (CM)": PRINT " 1 FOOT = 30.48 CENTIMETERS ": PRINT " 1 YRD = 91.44 CENTIMETERS"
150 PRINT
160 PRINT " 1 MILE = 1760 YARDS": PRINT ",, = 5280 FEET ": PRINT ",, = 6336 INCHES"
170 PRINT
180 PRINT " 1 KILOMETER = 1000 METERS": PRINT " 1 METER = 100 CENTIMETERS"
190 PRINT " 1 CENTIMETER = 0.3937 INCHES ": PRINT " OR ABOUT 25/64 OF AN INCH"
220 PRINT
240 INPUT "PRESS RETURN FOR CALCULATIONS"
245 PRINT : PRINT
250 PRINT " CONVERTING MILES TO YDS-FT-IN.": PRINT ", " ENTER "
255 INPUT " MILES",A
260 PRINT ;A*1760;" YARDS "
265 PRINT ;A*5280;" FEET "
270 PRINT ;A*6336;" INCHES"
275 B=2.54: PRINT
285 PRINT "***** METRIC CONVERTER *****": PRINT
295 PRINT " 1 INCH =";B;" CENTIMETERS"
300 PRINT " 1 FOOT =";B*12;" CENTIMETERS "
305 PRINT " 1 YRD =";B*36;" CENTIMETERS"
310 PRINT " 1 MILE =";B*5280;" METERS": PRINT
320 PRINT
330 INPUT " INCHES ",C
340 PRINT ;C*.25;" CENTIMETERS"
345 INPUT " FEET ",D
350 PRINT ;D*25.4;" CENTIMETERS"
355 INPUT " YARDS",E
360 PRINT ;E*91.44;" CENTIMETERS"
370 PRINT " OR ":E*.9144;" METERS"
385 INPUT " MILES",F
390 PRINT ;F*1609.34;" METERS "
395 PRINT " OR ":F*1.6093;" KILOMETERS"
400 PRINT
405 INPUT " IN CENTIMETERS",G
410 PRINT ;G*.3937;" IN INCHES"
415 PRINT ;G*.0254;" IN YARDS "
420 PRINT
425 PRINT "PRESS RETURN FOR MORE"
430 INPUT " PRESS 1 FOR MORE?":K
435 IF K=1 GOTO 250
440 GOTO 10

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1  REM  ANOTHER HI RES PROGRAM
2  REM  BY KEITH PHILLIPS
3  POKE 24578,38
4  POKE 8193,68: POKE 8194,232
10  FOR A=0 TO 15: POKE 512+A,0
11  POKE 528,0
12  NEXT
15  FOR A=0 TO 383: POKE A,64
20  NEXT
30  FOR A=0 TO 15: POKE 528+A,40: NEXT
32  POKE 528,0: POKE 529,0: POKE 542,0: POKE 543,0
34  POKE 535,255
35  FOR A=0 TO 48
36  READ E: POKE 576+A,E: NEXT
40  FOR A=0 TO 15: POKE 544+A,64: NEXT
45  FOR A=0 TO 15 STEP 4: POKE 544+A,255: NEXT
48  FOR B=0 TO 12: POKE 282+B,65: POKE 289+B,65: NEXT
70  FOR B=47 TO 335 STEP 32: POKE B,66
72  POKE 175,64: POKE 207,64: POKE 239,64
75  NEXT
76  FOR A=560 TO 575: POKE A,A/4: NEXT
80  N=16838: POKE 498,0:3=PEEK (498)
90  CALL 16838
95  3=PEEK (498)
96  IF 0=3 THEN CALL 16999: POKE 207,67: POKE 207,64
100  IF 3=78 GOTO 389
105  IF 1=63 GOTO 490
110  IF 3=69 GOTO 500
120  IF 1=67 GOTO 600
129  POKE 498,0
130  CALL 16838
150  N=N+1: ON N GOTO 300,400,500,600
200  DATA 20,52,64,116,140,150,152
210  DATA 21,53,55,117,149,151,153
220  DATA 22,54,56,118,150,152,154
230  DATA 237,204,251,249
240  DATA 0,0,2,15,14,22,20,23,22,14,5,1,0,0,0,21,20,54,55,57,58,1,100,100,101,149,59,99,99,20,20,0
245  DATA 4,0,5,65,0,0,00,00,00,00,144,89,79,100,100,0
250  DATA 54,67,68,101,102,105,137,139,140,142,175,207
255  DATA 224,226,228,229,243,245,234,267,237,266,267
260  DATA 349,313,314,344,288,311,270,243,246,244,178,245,240,267
300  READ A: POKE A,60: READ B: POKE B,65: READ C: POKE C,70
310  POKE A,64: POKE B,64: POKE C,64
311  GOTO 90
400  READ B: POKE B,67
405  READ F: POKE F,68: POKE F,69: POKE F,70
410  POKE B,64
411  GOTO 90
500  READ C: POKE C,67
505  READ B: POKE B,68: POKE B,69: POKE B,70
510  POKE C,64
511  GOTO 90
600  READ B: POKE B,67
605  READ H: POKE H,68: POKE H,69: POKE H,70
610  POKE B,64
611  GOTO 90
615  POKE F,64: POKE G,64: POKE H,64
620  POKE 498,0: GOTO 90
620  GOTO 100

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1  REM  CALCULATING TAXABLE INCOME
2  REM  PROGRAM SUBMITTED BY DAN TAYLOR
3  CALL 17846
10  PRINT "TOTAL INCOME ...=" ;
20  INPUT I
30  PRINT "TOTAL ADJUSTMENTS=" ;
40  INPUT A
50  B=I-A
60  PRINT "TOTAL DEDUCTIONS =" ;
70  INPUT D
80  PRINT "NO. OF DEPENDENTS =" ;
90  INPUT N
100  T=0:B=N*1000
110  PRINT "TAXABLE INCOME IS " ; T
120  PUSC "41"
130  END

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456 CALL 17046
457 PRINT "44 SPEED AND FUEL CONSUMPTION"
458 PRINT "#####"
459 PRINT : PRINT " IF A CAR TRAVELS AT 60 MILES " : PRINT " PER HOUR IT COVERS 88 FEET " : PRINT " PER SECOND (F/SEC)"
460 PRINT
461 INPUT " SPEED IN MILES",N
462 PRINT : PRINT "YOU MAKE ";(N*.447)*" FEET/SEC"
463 PRINT : PRINT " IF YOU GO"
464 INPUT " FEET/SEC.",N
465 PRINT "YOU ARE GOING ";(N*.6818)*" MILES PER HOUR"
466 PRINT " OR ";(N*.977)*" KILOMETERS/HR"
467 PRINT
468 PRINT "HIT RETURN KEY FOR FUEL CONSUMP"
469 INPUT " MORE SPEEDS" (I=YES)*,X
470 PRINT
471 IF I=1 GOTO 520
472 IF X=1 GOTO 468
473 CALL 17046
474 PRINT "### FUEL CONSUMPTIONS####": PRINT
475 PRINT " SINCE CANADA CHANGED TO THE " : PRINT " METRIC SYSTEM THE IMPERIAL GAL.: PRINT " IS OMITTED HERE "
476 PRINT "IF A CAR RACES"
477 INPUT " MILES PER GALLON",B
478 PRINT
479 B=.0040842*ENG
480 PRINT "IT WOULD USE ";(1/B*.264)*" LITER IN 100 KILOMETER"
481 PRINT : PRINT
482 PRINT "RETURN KEY TO GOTO MENU"
483 INPUT " MORE FUEL QUESTIONS" (I)*,X
484 IF X=1 GOTO 520
485 IF X=1 GOTO 58
486 CALL 17046
487 PRINT "#### OF SQUARES AND CUBES####"
488 PRINT "##### GENERAL INFORMATION####"
489 PRINT " 1 SQ.MILE = 640 ACRES"
490 PRINT " 1 ACRE = 43560 SQ.FT."
491 PRINT " 1 SQ.YD. = 1296 SQ.IN."
492 PRINT " 1 SQ.FT. = 144 SQ.IN."
493 PRINT : PRINT
494 PRINT "##### INTO METRIC ####"
495 PRINT
496 INPUT "HOW MANY SQ.FT?" ,F
497 M=F*.072: PRINT
498 PRINT "F1" SQ.FT = "M1" SQ.METERS"
499 PRINT
500 PRINT "HOW MANY SQ.METERS": PRINT
501 INPUT "SQ.METER",E
502 T=E*.145: PRINT "T1" SQ.YARDS"
503 R=T*.9: PRINT "R1" SQ.FEET"
504 PRINT : PRINT
505 PRINT " PRESS RETURN FOR CUBES"
506 INPUT " PRESS 1 FOR MORE",X
507 IF X=1 GOTO 600
508 PRINT : PRINT
509 PRINT "##### CUBIC MEASURES ####"
510 PRINT : PRINT
511 PRINT " 1 CU.YD = 16.3871 CON-CUBIC CM"
512 PRINT " 1 CU.YD = 9.7646 CU.METERS"
513 PRINT " CONVERTING CU.IN-CON-LITERS"

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740 INPUT "CU.IN",H
745 PRINT "H"; CU.IN = ".1416.3871;" CM "
750 PRINT "THAT'S EQUAL TO ".1416.3871;" LITER "; PRINT
755 PRINT " IF A CAR'S DISPLACEMENT IS "; PRINT "KNOW ONLY ON LITER THE CODES"
760 PRINT
765 INPUT "IN LITER",L
770 PRINT "L;" LITER = ".1461.8236;" CU.IN."
775 PRINT
777 PRINT " RETURN KEY FOR MENU"
780 INPUT " I=NONE CUES ",K
785 IF K=1 GOTO 760
790 GOTO 18
800 CALL 17846
805 PRINT "4444 TEMPERATURE CONVERTER 4444"; PRINT
810 INPUT "HOW MANY DEGREES F?",F
815 B=5/9*(F-32); PRINT
820 PRINT "F;" DEGREES F ="B;" DEGREES C"
825 PRINT : PRINT
830 PRINT " RETURN KEY FOR C.800-F.DEGREES"
835 INPUT " MORE F-C ? PRESS 1",K
840 IF K=1 GOTO 805
845 PRINT " PRINT : PRINT
850 INPUT "HOW MANY DEGREES C?",C
855 F=9/5*(C+32); PRINT
860 PRINT "C;" DEGREES C ="F;" DEGREES F"
865 PRINT : PRINT
870 PRINT " RETURN KEY FOR MENU"
875 INPUT " MORE C-F ? PRESS 1",K
880 IF K=1 GOTO 845
885 GOTO 18
890 STOP
895 CALL 17846
900 PRINT "***** LIQUID MEASURES *****"
905 PRINT " I GALLON(S) = 16 FL.OZ"
910 PRINT " I GALLON(S) = 28 FL.OZ"
915 PRINT " I FL.OZ(S) = 26.4 CUBIC INCHES"
920 PRINT " I GALLON(S) = 128 FL.OZ"
925 PRINT " I GALLON(S) = 128 FL.OZ"
930 PRINT " I GALLON(S) = 128 FL.OZ"
935 PRINT " I GALLON(S) = 128 FL.OZ"
940 PRINT " I GALLON(S) = 128 FL.OZ"
945 PRINT " I GALLON(S) = 128 FL.OZ"
950 PRINT
955 PRINT " I LITER = 1.0567 QT(S) (US)"
960 PRINT " I FL.OZ = 1.06 CU.IN"
965 PRINT " I SHORT TON = 2,000 LBS(US)"
970 PRINT " I LONG TON = 2,240 LBS(US)"
975 PRINT "OR ABOUT 2,000 LBS METRIC=1 TON"
980 PRINT
985 INPUT "WEIGHTS-PRESS RETURN KEY"
990 CALL 17846; PRINT "***** WEIGHTS *****"
995 PRINT
1000 PRINT " I LBS(US) = 16 OZ(US)"
1005 PRINT " I LBS(US) = 454 GRAM(METRIC)"
1010 PRINT " I LBS(METRIC) = 500 GRAM"
1015 PRINT " OR 1/2 KILOGRAM"; PRINT
1020 PRINT " CONVERSIONS "; PRINT
1025 PRINT " OUNCES TO GRAMS AND LBS(METRIC)"; PRINT
1030 INPUT " OUNCES",O
1035 B=O*28.35; F=O*.035274; G=O*.00453592

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WANT ADS

 STAR TREK COMMANDER YOUR
 STARSHIP REQUIRES MUCH MORE THAN
 PUSHING THE FIRE BUTTON INTO A
 GAME PROGRAMS OR \$12.95 OR JONES
 435 S. 105 E. PL, TULSA, OK 74129

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 IN 6800 MACHINE LANGUAGE ALLOWS
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 HERE'S SOMETHING NEW! SUPER-CALCULA-
 TOR... THE POWER OF THE IBM 370
 EASIER THAN A POCKET CALCULATOR.
 ALL KEY ENTRIES SELF REPORTING
 BY SIMPLY KEEPING THEM DECREASED
 ARITHMETIC ACCURACY 32 DIGITS,
 SIN 11 DIGITS, ARCTAN 11 DIGITS,
 OTHER TRIG 8 DIGITS, *OPS, EXP &

WANT ADS

DIGITS. IFN STACK SCIENTIFIC
 NOTATION FROM 10E-37-37. CON-
 POUND INT., PRESENT VALUE, SINX,
 E TO THE X, ANTILOG, INK, LOGIN,
 MANY CONSTANTS BUILT-IN LOGE PI,
 E, LOG E, SQR OF 2, ETC. YOU CAN
 ROLL THE STACK, EXCHANGE X & Y
 INVERSE, AND IF YOU BUY THE 19
 PAGE MANUAL YOU CAN LEARN HOW TO
 ADD EVEN MORE, OR MODIFY TO SUIT
 YOUR OWN NEEDS. AND AS MORE
 EXPERIENCED CLUBMEMBERS EXPERT-
 MENT WITH IT WE MAY EVEN ADD A
 FEW INSTRUCTIONS THAT WILL MAKE
 IT ACT LIKE IT WAS PART OF THE
 BASIC INTERPRETER. I'M PAYING
 ROYALTIES ON THIS. ALL I DID WAS
 CONVERT IT FROM THE 8080 VERSION
 THE PRICES ARE \$4.99 FOR 2 PG
 LISTING TYPE IT IN YOURSELF,
 REQUIRES MODIFICATION, THE
 CASSETTE VERSION IS \$6.50.....
 NO CASE, CREAM TAPE, NO FANCY
 FRONT PIC. THE MANUAL IS A
 DETAILED LISTING WITH ALGORITHMS
 EXAMPLES, AND INSTRUCTIONS. THE
 WHOLE PRICE IS \$15.00. MANUAL &
 CASSETTE TOGETHER IS \$17.50.
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 FOR SALE: FOR CLUB MEMBERS ONLY,
 HP-80 PRINTER REBORN \$10.00 +
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 FOR SALE: 23K HP-1 COMPUTER,
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 ALL 3 MONTHS OLD AND EXCELLENT
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WANT ADS

 FOR SALE: THE LETTER WRITER
 YOUR COMPOSING PROBLEMS ARE
 OVER. NOW YOU CAN DO YOUR WRI-
 TING ON THE APP. THIS PROGRAM
 OFFERS YOU EASY EDITING-ADD,
 DELETE, AND CHANGE CHAR.
 SENTENCES CHANGE ON SCREEN AS
 YOU EDIT. YOU GET UPPER & LOWER
 CASE PRINT ON YOUR PRINTER. SAVE
 & RETRIEVE LETTERS ON TAPE.
 THE LETTER WRITER MAKES COMPOS-
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 MEMOS FAST & EASY. PLEASE SEND
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 LOHARRE, ILLINOIS 61046. PLEASE
 SPECIFY BK OR SK AND THE NUMBER
 OF CHAR-LINE.

 NOTICE PROGRAMS--BATTLESHIP-----
 LO-RES SKETCH---H-WRES SHAPE
 MAKER
 WAP MEMORY PEEF--SPELL-IT---AND
 MORE ON CASSETTE
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 1440 MONTANA ST., DUNDAS, FL
 32601

 CLUB PROGRAMS & I
 RE RESI HELP BY K. PHILLIPS
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 APP 18-1 ON CALL BY L. DOOLEY
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 MAPLE OF NUMBERS BY D. SCHMIDT
 SPIRAL 11 BY D. SCHMIDT
 MEMORY TEST BY M. PINNER
 SHAPE BY M. PINNER
 HI RES ALPHABET BY M. PINNER

 WE WILL PUBLISH
 THESE AS TIME
 AND SPACE PERMITS

CALL BOX CALL BOX CALL BOX
 WITH THIS SECTION I AM GOING TO ATTEMPT TO HELP PEOPLE WITH THE
 MACHINE LANGUAGE OF THE IM-1. I WILL MAINLY CONCENTRATE ON THE
 ML CALL ROUTINES AVAILABLE. SOME OF THIS MIGHT BE OLD INFO FOR
 SOME OF YOU BUT STICK WITH ME AND WE WILL GET TO THE NEW STUFF
 SOON ENOUGH.

CALL 34248=ENABLE MOTOR AND AUDIO OF TAPE CASSETTE TO ALLOW YOU
 TO LISTEN TO AUDIO TRACK ONLY.
 CALL 34061=SHUTS OFF MOTOR AND AUDIO.
 CALL 34141=PUTS OUT 11 SECOND HEADER AND THEN SAVES MEMORY AS
 SPECIFIED IN THE "HIGH" AND "LOW" MEMORY POINTERS IN MEMORY.
 CALL 34228=READS FROM TAPE TO MEMORY AND PUTS DATA AS PER "HIGH"
 AND "LOW".

"LOW"=2 BYTES INDICATING THE BEGINNING OF MEMORY FOR TAPE SAVE
 OR READ. LOC=40967(DEC) & A007(HEX)
 "HIGH"= 2 BYTES INDICATING THE END OF MEMORY FOR TAPE SAVE OR
 READ. LOC=40969(DEC) & A009(HEX). "MEM END" SHOULD BE SET TO THE
 SAME AS "HIGH" WHEN USING "HIGH".
 "MEM END"= 2 BYTES INDICATING THE END OF MEMORY. LOC=41446(DEC)
 & A1E6(HEX).

THESE LOCATIONS CAN BE SET USING POKE COMMANDS.
 HERE IS AN EXAMPLE FROM THE TECH REFERENCE MANUAL FOR THE USE OF
 THE ABOVE.

```

10 DIM A(5):REM SET UP ARRAY SPACE
15 PRINT"PLACE TAPE IN DECK AND ENGAGE":REM PRINT TAPE MESSAGE
20 FOR J=1 TO 3:REM WILL DO LOOP 3 TIMES
30 FOR I=0 TO 5:INPUT"INPUT #",A(I):NEXT I:REM GET INPUTS FOR 6
ELEMENTS
35 GOSUB 200:REM GO SET UP HIGH, LOW, MEM END
40 CALL 34141:CALL 34061:REM CALL SAVE ROUTINES, THEN STOP MOTOR
50 GOSUB 300:REM RESTORE MEMEND VALUE
60 NEXT J:REM SET 6 MORE VALUES FOR A
70 INPUT"REWIND TAPE, PRESS PLAY, THEN RETURN KEY"
80 FOR J=1 TO 3:REM WILL READ BACK 3 GROUPS OF DATA
90 GOSUB 200:REM GO SET HIGH, LOW, MEM END
100 CALL 34228:REM GO READ FROM TAPE
110 CALL 34061:REM STOP MOTOR
120 FOR I=0 TO 5:REM PRINT OUT VALUES OF A
130 PRINT A(I); " ";
140 NEXT I
150 NEXT J
160 END
200 POKE 40967,PEEK(419B4):REM SET LOW POINTERS TO END OF PROG-
RAM STORAGE (=START OF VARIABLE STORAGE)
210 POKE 40968,PEEK(419B5):REM OTHER HALF OF LOW
220 POKE 40969,PEEK(41009):REM SET HIGH POINTER TO END OF VARI-
ABLE STORAGE
230 POKE 40970,PEEK(41010):REM OTHER HALF OF HIGH
240 POKE 41446,PEEK(41009):REM SET MEM END TO END OF VARIABLE
STORAGE
250 POKE 41447,PEEK(41010):REM OTHER HALF OF MEM END
260 CALL 34040:RETURN:REM START MOTOR AND RETURN
300 POKE 41446,191:REM USE 223 IF 16K MACHINE
310 POKE 41447,255:REM OTHER HALF OF MEM END
320 RETURN
9999 STOP

```

PLACE A BLANK TAPE IN THE DECK AND RUN THE PROGRAM. ENTER VALUES
 FOR A(I) WHEN ASKED. THE PROGRAM WILL ASK FOR 3 GROUPS OF 6
 VALUES EACH TO USE FOR ARRAY A. AFTER YOU ENTER EACH GROUP IT
 WILL SAVE THEM TO TAPE.

WHEN THE 3 GROUPS ARE ENTERED AND SAVED, FOLLOW THE DIRECTIONS
 AND YOU WILL SEE THE PROGRAM RETRIEVE FROM TAPE EACH OF THE 3
 GROUPS AND DISPLAY THEM.

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FAST.

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Buy ESCAPE! and get
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HURRY & BUY NOW!

↓ From March
Newsletter

NEW FOLKS CHECK OUT THE GAMES IN
THE FULL PAGE ADS. THE PAC MAN
AND FROGGY ARE BOTH VERY GOOD
GAMES WITH SOME REAL GOOD HI RES
GRAPHICS. YOU SHOULD ENJOY BOTH.
THANKS EDITOR

-FROGGY ON THE FREEWAY-



IM-1 in a MILLION
NEWSLETTER. If you like highspeed thrills and excitement, you'll
love FROGGY ON THE FREEWAY!! A colorful, HI-RES, quick action
game is finally here. You control a little frog across a 10
lane freeway to his home. Each time you get 1 frog home the
traffic gets faster. Get 4 home and you advance to the GOLD frog
level, this ones really tough! And if your real good you'll
make it to the 3rd level, (RED FROG). This levels a killer.
Frog may eat snakes and flies for bonus points. It's mile a
minute action will provide hours of challenging fun.

CUSTOMER FEEDBACK

★★★★ EXCELLENT 75% GOOD 25%
FAIR 0% POOR 0%

On Cassette for only: \$10.95
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... PAK-MAN is here!!!

Your waiting is over, just like the arcade version
you control the little guy around the maze trying to eat all
the dots. While at the same time 4 very quick ghosts are trying
to eat you. Complete with power pills. Each screen gets faster
and faster. 95% machine language gives you quick action, HI-RES
graphics, and new sounds. Will provide hours of challenging fun.

CUSTOMER FEEDBACK

★★★★ EXCELLENT 32% GOOD 52%
FAIR 10% POOR 1%

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your games with the Atari joy-
stick. For a low price you get
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to ERIC BECKETT

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Milwaukee, WI. 53224

SHIPPING INFO.

Add \$1.50 for game
\$2.00 for joystick

=====

LONESOME COMPUTERS

SO MANY PEOPLE HAVE REQUESTED TO BE PUT IN TOUCH WITH OTHER IM-1 OWNERS THAT WE DECIDED TO ADD THIS PAGE DEVOTED TO THEM. WE WOULD NOT PRESUME TO GIVE OUT ANYONES NAME OR ADDRESS WITHOUT THEIR EXPRESS PERMISSION TO DO SO. IF YOU WISH TO BE CONTACTED, ALL YOU NEED TO DO IS FILL OUT THIS SECTION AND SEND IT TO US. WHO KNOWS, THERE MAY BE SOMEONE DOWN THE BLOCK WHO'S DYING TO MEET YOU.

=====

---CHECK HERE IF YOU DO NOT WANT THIS INFORMATION PUBLISHED!!!

NAME-----*TELL US A LITTLE ABOUT YOURSELF

ADDR-----*

CITY-----*

STATE-----*

ZIP-----*

PHONE-----*

=====

BLANK WANT AD

EACH LINE CAN CONTAIN 32 CHARACTERS INCLUDING SPACES.

=====

LINE 1.

LINE 2.

LINE 3.

LINE 4.

LINE 5.

LINE 6.

LINE 7.

LINE 8.

LINE 9.

LINE 10.

=====

DUE TO THE COST OF PRINTING WE WILL HAVE TO REQUEST THAT THE MEMBERS AND NON-MEMBERS SUBMIT ONLY ONE AD PER MONTH AND KEEP THE AD AS SMALL AS POSSIBLE. THE COST WILL BE 25 CENTS PER LINE FOR MEMBERS AND 75 CENTS PER LINE FOR NON-MEMBERS. ADS WILL BE PUBLISHED IN THE ORDER WE RECEIVE THEM. ANY LEFT OVER WILL BE PUT IN THE NEXT MONTHS AD. DEADLINE FOR ADS IS THE 28TH!!!!!!

THE WANT ADS ARE INTENDED FOR PERSONAL USE BY THE MEMBERS AND NON-MEMBERS WHO WISH TO SELL USED HARDWARE OR SMALL PROGRAMS. THEY ARE NOT INTENDED FOR COMMERCIAL USE. IF YOU NEED TO RUN A LARGE AD PLEASE WRITE AND WE WILL SEND YOU A STATEMENT OF OUR POLICY AND THE PRICE. THERE WILL BE A FULL

3000 NAME MAILING IN MARCH!!!!!!

INMILLION
PO BOX 1411
SPRINGDALE
ARKANSAS 72764



POSTS CO. 10/20/20
ADJUSTED